

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
24 March 2005 (24.03.2005)

PCT

(10) International Publication Number
WO 2005/026596 A1

(51) International Patent Classification⁷: **F16K 11/22**,
F25B 49/04

(US). RYU, Jinsang [KR/KR]; 203-ho 382-dong, Soweol
Apt., Ogum-dong, Gumpo-si, Syunggi-do 382 (KR).

(21) International Application Number:
PCT/US2004/028320

(74) Agent: **OLDS, Theodore W.**; Carlson, Gaskey & Olds,
P.C., 400 West Maple Road, Suite 350, Birmingham, MI
48009 (US).

(22) International Filing Date:
1 September 2004 (01.09.2004)

(81) Designated States (*unless otherwise indicated, for every
kind of national protection available*): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/501,366 9 September 2003 (09.09.2003) US

(71) Applicant (*for all designated States except US*): **UNITED
TECHNOLOGIES CORPORATION** [US/US]; 1 Finan-
cial Plaza, Hartford, CT 06101 (US).

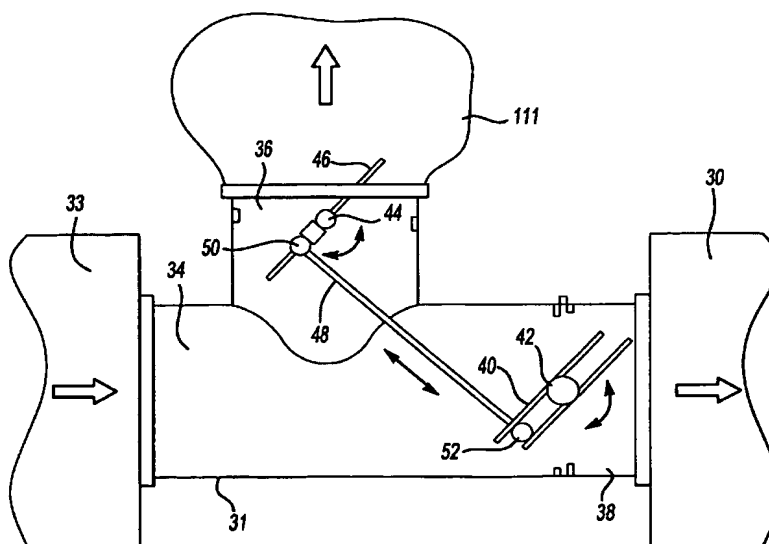
(72) Inventors; and

(75) Inventors/Applicants (*for US only*): **MARLER, Mark
E.** [US/US]; 72 Bidwell Street, Glastonbury, CT 06033
(US). **JUNG, Sunghan** [KR/US]; 6 Chelsea Road, South
Glastonbury, CT 06073 (US). **WAGNER, Timothy C.**
[US/US]; 562 Forbes Street, East Hartford, CT 06118

(84) Designated States (*unless otherwise indicated, for every
kind of regional protection available*): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,

[Continued on next page]

(54) Title: VALVE



(57) Abstract: A control for controlling the amount of heated fluid entering the inlet of the driving heat source for a refrigerant absorption cycle is controlled to vary the relative amount of heated fluid entering the driving heat source inlet, and being dumped to atmosphere. Preferably, a diverter valve is utilized such that a first valve body (40) communicates the flow into the driving heat source inlet, and moves in opposition to a second valve body (46) controlling the flow through the exhaust. The two valves bodies (40, 46) are preferably mechanically linked. Since the heated fluid is not allowed to enter the refrigerant absorption cycle as its drive heating source, no additional hardware and control for dumping excess heat is necessary within the refrigerant absorption cycle. A computer control preferably drives the first valve to a precise position and the linkage ensures the second valve is also received at a precise position.

WO 2005/026596 A1



SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Published:

- *with international search report*
- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*